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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/633,190	07/31/2003	Ken L. Chang	K35A1300	3170	
35219 75	590 10/27/2005		EXAMINER		
WESTERN D	IGITAL TECHNOLO	BLOUIN, MARK S			
ATTN: SANDE	RA GENUA				
20511 LAKE F	OREST DR.		ART UNIT	PAPER NUMBER	
E-118G			2653		
LAKE FOREST, CA 92630			DATE MAILED: 10/27/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
Office Action Summary		10/633,190	CHANG ET AL.	CHANG ET AL.			
		Examiner	Art Unit				
		Mark Blouin	2653				
Period fo	The MAILING DATE of this communication or Reply	n appears on the cover sheet	with the correspondence ac	ddress			
WHIC - Exter after - If NC - Failu Any I	ORTENED STATUTORY PERIOD FOR RICHEVER IS LONGER, FROM THE MAILINg and the may be available under the provisions of 37 CI SIX (6) MONTHS from the mailing date of this communication period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by streply received by the Office later than three months after the red patent term adjustment. See 37 CFR 1.704(b).	IG DATE OF THIS COMMUNITY  FR 1.136(a). In no event, however, may on.  Deriod will apply and will expire SIX (6) Mostatute, cause the application to become	NICATION. a reply be timely filed  ONTHS from the mailing date of this of ABANDONED (35 U.S.C. § 133).	÷			
Status							
1)	Responsive to communication(s) filed on						
2a) <u></u>	This action is FINAL. 2b)⊠	This action is non-final.	•				
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Dispositi	ion of Claims			•			
4)🖂	4)⊠ Claim(s) <u>1-26</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)	5) Claim(s) is/are allowed.						
•	Claim(s) <u>1-26</u> is/are rejected.						
	Claim(s) is/are objected to.						
8)[_]	Claim(s) are subject to restriction a	ing/or election requirement.					
Applicati	ion Papers						
9)☐ The specification is objected to by the Examiner.							
10)⊠ The drawing(s) filed on <u>31 July 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority ι	ınder 35 U.S.C. § 119			·			
• —	Acknowledgment is made of a claim for for	reign priority under 35 U.S.C	. § 119(a)-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐ None of:  1. ☐ Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage							
	application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.							
	· :			·			
Attachmen	t(s)		•				
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)							
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  Paper No(s)/Mail Date  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SR/08)  5) Notice of Informal Patent Application (PTO-152)							
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  Paper No(s)/Mail Date  5) Notice of Informal Patent Application (PTO-152)  6) Other:							

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## **Detailed Action**

## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1-26 are rejected under 35 U.S.C. 102(e) as being anticipated by Chew (USPN 6,636,383).
- Regarding Claims 1,8,15,22, and 24, Chew shows (Figs. 3-7), a disk drive, comprising a disk, a head stack assembly for reading and writing to the disk, the head stack assembly (Col 1, lines 38-49) comprising an actuator arm assembly stamped from a single flat sheet of material (Col 2, lines 12-16) and comprising a first actuator arm (6) portion defining a first latch portion (62), a second actuator arm portion (30) defining a second latch portion (14) configured to latch with the first latch portion, an actuator arm joining portion integrally joining the first actuator arm portion to the second actuator arm portion, and a first head gimbal assembly (28) coupled to the actuator arm portion.
- Regarding Claims 2,10, and 17, Chew shows (Figs. 3-7), the disk drive wherein the actuator arm assembly is configured to pivot about a pivot axis and wherein the

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actuator arm-joining portion (98) is configured to bend into an orientation that is substantially parallel to the pivot axis.

- Regarding Claims 3,11, and 18, Chew shows (Figs. 3-7), the disk drive, wherein the actuator arm assembly is configured to pivot about a pivot axis and wherein the first latch portion is configured to bend into an orientation that is substantially parallel to the pivot axis.
- Regarding Claims 4,12, and 19, Chew shows (Figs. 3-7), the head stack assembly, wherein the actuator arm assembly is configured to pivot about a pivot axis and wherein both the actuator arm-joining portion (98) and the first latch portion (Fig. 9 shows latch portion (62) parallel to the pivot axis) are configured to bend into orientations that are substantially parallel to the pivot axis.
- Regarding Claims 5,13, and 20, Chew shows (Figs. 3-7), the actuator arm assembly, wherein the first actuator arm portion (6) includes a first surface defined by a thickness and a length of the first actuator arm portion and wherein the second actuator arm portion (30) includes a second surface defined by a thickness and a length of the second actuator arm portion and wherein prior to bending, the first surface faces and is parallel to the second surface.
- Regarding Claims 6,14,21,25, and 26, Chew shows (Figs. 3-7), the actuator arm, wherein the first actuator arm portion (6) defines a first surface that defines a first through bore (10), the second actuator arm portion (30) defines a second surface that defines a second through bore (34) that is configured to align with the first through bore, and the first and second bores are fitted with a collar (Col 8, lines 57-65) to stiffen (the inter connection would inherently stiffen the structure) the actuator arm assembly.

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9. Regarding Claim 7 and 23, Chew shows (Figs. 3-7), the actuator arm assembly, wherein the actuator arm-joining portion (98) and the first latch portion (62) are configured to bend such that a major surface of the first actuator arm portion faces and is substantially parallel to a major surface of the second actuator arm portion.

## Conclusion

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark Blouin whose telephone number is (571) 272-7583. The examiner can normally be reached M-F, 6:00 am – 3:30 pm.

If attempts to reach the examiner by telephone are unsuccessful the examiner's supervisor, William Korzuch can be reached at (571) 272-7589. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300 for regular and After Final communications.

Any inquiry of general nature or relating to the status of application or proceeding should be directed to the receptionist whose telephone number is (703) 306-0377.

Mark Blouin
Patent Examiner
Art Unit 2653
October 19, 2005

A. J. HEINZ PRIMARY EXAMINER GROUP 2500

S. J. Steins